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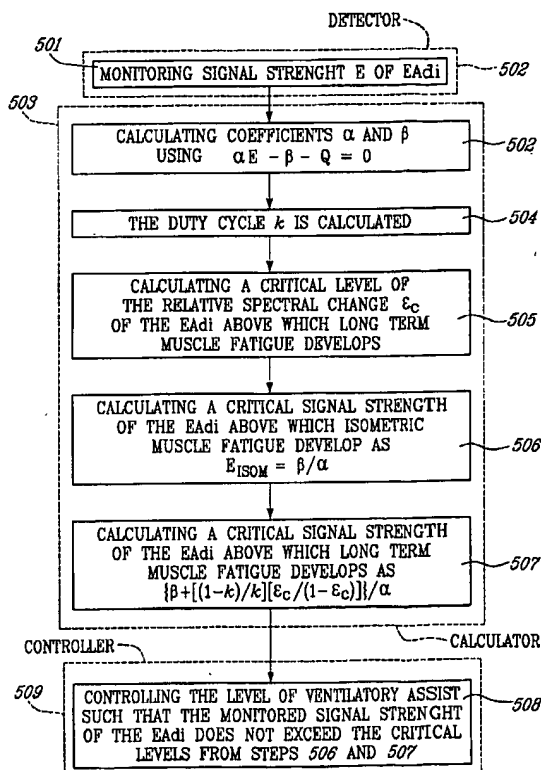
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- (54) Title: METHOD AND DEVICE USING MYOELECTRICAL ACTIVITY FOR OPTIMIZING A PATIENT'S VENTILATORY ASSIST**



(57) Abstract: The present invention relates to a method and device for determining a level of ventilatory assist to a ventilator-dependent patient, in which a critical threshold of a respiration-related feature is calculated. Fatigue of a respiratory muscle of the ventilator-dependent patient develops when the critical threshold is reached by the respiration-related feature. The level of ventilatory assist to the ventilator-dependent patient is controlled in relation to the critical threshold of the respiration-related feature so as to prevent fatigue of the patient's respiratory muscle.